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ABSTRACT

The activities of the Information and Documentation Center (IDC) at the Royal Institute of Technology in Stockholm, Sweden are presented in this annual report for the fiscal year 1972-1973. The IDC is a research project on computer-based information retrieval funded by the Swedish Council for Scientific Information and Documentation and the Office of the Chancellor of the Swedish Universities. Several important changes in equipment occurred in 1972-73. A new computer configuration became operational; new software was implemented; and an on-line connection with the European Space Research Organization was installed. One of the major activities reported on is the initiation of a large scale project on information need in the social sciences. Statistics on searches, search profiles, users, and data bases are given. Also included is information on user education programs, contacts with external organizations and with the public, participation in meetings and other activities, and a list of staff publications. (JG)

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RAPPORT TRITA-LIB-4024

COMPUTERIZED DOCUMENTATION SERVICE - SDI - SELECTIVE DISSEMINATION OF INFORMATION ANNUAL REPORT 1972--1973

ZOFIA GLUCHOWICZ

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FEBRUARY 1974

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TRITA-LIB-4024
Computerized Documentation Service
SDI - Selective Dissemination of
Information. Annual Report 1972--1973

Abstract.

The annual report on the activities of the computer-based Information and Documentation Center - IDC - at the Royal Institute of Technology, Stockholm, Sweden - RIT - for the fiscal year 1972--1973 (FY 1972--1973) provides an account of the work accomplished by the IDC during the period July 1, 1972 through June 30, 1973. The report includes an overview of the prevalent functions of the IDC during the period including new research projects.

An account is given of the work on query processing for profile construction and maintenance. The distribution of processed and disseminated references on the data bases is presented in statistical tables. The amount of processed references being 1 292 300 and the amount of disseminated references being 1 224 700.

The transfer of the retrieval operations to a new computer configuration and the installation and implementation of a new search software - VIRA - and a new profile maintenance system - EPOS - is described.

During the FY 1972--1973 16 data bases were processed covering a wide range of subject scope in science and technology. The total amount of subscriptions to the SDI service increased to 1 220 corresponding to 5 743 profiles.

The user community, user-system interaction, and user training programs as seminars, workshops, conferences are presented by a survey.

International contacts, cooperation with external groups, and participation in meetings and committees are reported.

Publications compiled by the staff are listed.

Preamble.

This report gives an account of the activities at the Information and Documentation Center - IDC - at the library of the Royal Institute of Technology - RIT - in Stockholm, Sweden during the fiscal year, FY 1972--1973 (July 1, 1972 - June 30, 1973).

The IDC is a research project on computerbased information retrieval conducted with financial support from the Swedish Council for Scientific Information and Documentation, known in Sweden by the acronym - SINFDOK - as well as from the Office of the Chancellor of the Swedish Universities in cooperation with the library.

During this period the IDC has augmented its position as the central information service for scientific research and technical development in Sweden, providing an SDI service with a comprehensive coverage that excludes bio-medical research, which is the responsibility of the Biomedical Documentation Center at the Caroline Medico-Chirurgical Institute.

The growing insight of the impact of science and technology on human life and of the social function of science has brought with it the realization that scientific research is becoming multi- and transdisciplinary. The documentation service at the IDC was originally aimed at engineering science and technology. The service has gradually been extended to cover research in additional fields and disciplines as a result of the demand of the user community.

The prevalent features of the FY 1972--1973 have been:

1. Transfer of operation to a new computer configuration.

2. Installation and implementation of a new software for profile maintenance as well as search.

3. Installation of an on-line connection to ESRO:s (European Space Research Organisation) Space Documentation Service for retrospective searches in interactive mode.

4. Initiation of a large scale project on the information need in the fields of social sciences.

These features had an impact of great significance on all tasks and functions of the IDC. 1 and 2 affected the work of the basic functional areas of the IDC. 3 and 4 were new projects covering new areas.

The work on these new projects was conducted without additional personnel, which meant new tasks and a heavy burden for the already overloaded staff.

The basic functions of the IDC can be divided into five functional areas: Center management, retrieval services,

operational services, system development, marketing.

An account of these functional areas will be given in terms of associated activities conducted by all members of the staff in common effort.

The Center management.

The center management includes the obvious work responsibilities of staff supervision, coordination of all operations, personnel and budget control and long range planning of the center's activities.

During the FY 1972--1973 the management of the center had to cope with a continually extending mass of responsibilities, functions, tasks and activities, which is due to the dynamic character of a computerbased documentation center in general and to the growing scope and complexity of the IDC during this period especially.

The retrieval services.

The retrieval services - SDI and retrospective searches - were provided continuously in parallel with the work performed in connection with the switch-over to a new computer configuration and a new software system.

Profile preparation and modification.

Profile preparation is one of the central operational functions of the computerized information retrieval system. The search profile is a representation of the query in the terminology of the data bases and coded according to the techniques and conventions of the search and profiling systems.

The installation and implementation of a new search system - VIRA - and a new profile maintenance system - EPOS - linked to VIRA affected all the functional tasks of profiling and searching.

VIRA, although being a new generation of the ABACUS search system which has been used at the IDC since 1968, can be regarded as a wholly new system.

The profile maintenance system - EPOS - designed and implemented during FY 1972--1973 implies as well as VIRA a new approach and new techniques. The new rules and conventions had to be adopted and learned by the documentalists.

Most queries have,in order to maintain effective coverage, to be matched against two or three data bases. The user and the subject specialist - the documentalist - decide in cooperation which data bases the query is to be searched on. The program system VIRA can be used for processing any data base, so that profiles can be constructed for VIRA in a general manner as designed by the profiling system EPOS.

As there is no standard for data bases, different data bases contain different bibliographic items, presented in different ways and forms. In order to be able to search different items such as classification codes, descriptors, etc or to restrict searches to certain classes of documents or subject fields of a data base, these details have to be specified in the profile. Therefore a profile is first formulated for searching titles. The profile can then be copied by the profiling program and augmented by the specific search elements contained in each data base to be searched. The extension of the title profile is performed by the documentalist. Accordingly a query can be formulated as several alternative profiles, each to be searched on a different data base, making use of the bibliographic elements pertinent for that data base.

Data bases operational in the SDI system during FY 1972--1973.

ISI - Science Citation Index Source Tapes

MechEn - Mechanical Engineering. A data base generated in-house.

CAC - Chemical Abstracts Condensates

INSPEC - Information Service in Physics, Electrotechnology, and Computer & Control

Metadex - Metals Abstracts Index

NSA - Nuclear Science Abstracts (processed in cooperation with the Swedish Nuclear Establishment - AB Atomenergi, Studsvik)

GRA - Government Reports Announcements

Compendex - Computerized Engineering Index

ABIPC - Abstract Bulletin of the Institute of Paper Chemistry

WOOD - a data base generated at the IDC in close collaboration with the Swedish Forest Products Research Laboratory

FSTA - Food Science and Technology Abstracts

ERIC - Educational Resources Information Center - monographs, journals, serials.

Nyfli - list of accessions to RIT, Chalmers Institute of Technology, and AB Atomenergi (terminated in January 1973)

*TR - Technical Reports - reports accessed in deposition of AB Atomenergi library (commenced in December 1972)

STU - new projects granted by the Swedish Board for Technical Development

SSCI - Social Science Citation Index (commenced in June 1973)

* This data base adds about 15 000 references to reports in deposition of the library at AB Atomenergi. The predominant reports serials are: USAEC (US Atomic Energy Commission), the RAND Corporation reports, and reports on projects granted by the Swedish Board for Technical Development.

New profiles.

462 new queries were submitted during FY 1972--1973 to the IDC, adding 2 018 new profiles.

Table 1.

Number of multiple locations of new profiles on data bases

Data base	SDI profiles for ABACUS	VIRA	total for the data bases
ISI		365	365
MechEn	66	97	163
CAC		177	177
INSPEC		192	192
Metadex	69	135	204
GRA		363	363
Compendex	27	305	332
NSA	19		19
ABIPC	12	21	33
WOOD	12	13	25
FSTA	11	13	24
ERIC	48	52	100
IR	21		21
TOTAL	285	1 733	2 018

Table 2.

Reconstruction of profiles according to VIRA and EPOS

Data base	SDI profiles	Group profiles	Total
MechEn	303	18	321
Metadex	330	8	338
GRA	867	21	888
Compendex	731	20	751
ABIPC	66		66
WOOD	46		46
FSTA	46	1	47
ERIC	106	1	107
TOTAL	2 495	69	2 564

Although a program was designed for automatic translation of the existing profiles according to EPOS system rules and conventions, the search strategy for each profile had to be rewritten by the documentalists in order to make use of the new capabilities offered by the VIRA and EPOS systems, such as implementation of Boolean and mathematic operators and assigning of numerical weight to each search term.

Table 3.

Retrospective searches

Method	Amount of searches	Distributed references
Manually	24	1 429
Batch	23	9 100
*On-line interactive mode	98	20 556
TOTAL	145	31 085

*See: Related Projects. Supplementary activities.

The user community.

The computer based documentation services were initiated with the purpose to provide information service to research and development programs in industrial and academic communities.

The data bases were selected on the basis of the potential user community and their research interests. The distribution of users by type for FY 1972--1973 is shown on the table below.

Table 4.

Classification of center users by type (including subscribers to standard profiles)

Type of users	Number of users
Industry	618
RIT	126
University of Stockholm	26
" " Uppsala	15
" " Lund	56
" " Umeå	2
Teachers college, Malmö	11
" " Stockholm	3
Governmental institutions	15
Research organizations	134
Chalmer Technical Institute	30
Luleå Institute of Technology	4
Scandinavian and foreign	182
University of Linköping	15
" " Göteborg	14
Ultuna	3
Others	33
TOTAL	1 287

Operational services.

This functional area compasses data base maintenance, data base supliers' records, required royalty for various data bases acquired on the basis of license agreement, submission of computer jobs, statistical data on computer runs for each data base and for each profile, and distribution of search outputs according to maintained user files.

The changes which have occured over the FY 1972--1973 have been of great significance for almost all of the functions in the operational area.

The transfer of operations to a new computer configuration had its greatest impact on the submission of all computer jobs for the production run, maintenance of the magnetic tape inventory, distribution of search results and production statistics.

During the FY 1972--1973 all operations were gradually transferred from an IBM 360-30F computer located at Studsvik to an IBM 360-75 which is located at the computer center of the universities of Stockholm.

In the first phase the search operations were transferred data base by data base to the IBM 360-75. The tapes with the search results were sent to Studsvik for listing on the 360-30F computer as the listing programs for the new computer were under preparation.

Statistics for processed and distributed references during the FY 1972--1973.

Table 5.

Number of references punched for input for in-house generated data bases:

MechEn	44 900
WOOD	4 600
STU new grants	300

Table 6.

Distribution of processed and disseminated references per data base

Data base	No of references processed	disseminated	Disseminated refs in % of processed refs
ISI	472 100	388 600	82
MechEn	44 900	45 300	101
CAC	388 300	212 000	55
INSPEC	127 800	244 400	191
Metadex	26 400	58 200	220
GRA	22 000	39 300	179
Compendex	69 400	130 700	188
NSA	60 400	20 700	34
ABIPC	12 500	13 200	106
WOOD	4 600	9 200	200
FSTA	17 600	47 800	255
ERIC	34 800	9 200	26
Nyfli	4 200	1 300	31
TR	7 000	3 300	47
STU	300	1 500	510
TOTAL	1 292 300	1 224 700	95

System development and system evolution.

Already during FY 1971--1972 the size of the operations of the IDC as measured by the number of profiles and number of data bases and references processed, expanded to a degree where improved search efficiency in terms of computer time and operational tasks became necessary.

The result of a large research and development work conducted by Rolf Larsson was a generalized text search system for use on bibliographic text files, especially designed for a large volume of profiles and for a wide range of data bases. This system was called VIRA. The program is written for IBM 360 under OS/MVT with 104K. The efficiency of VIRA in terms of computer time can be seen from Table 7.

The switch from ABACUS to VIRA started already at the end of the preceding FY 1971--1972. The main tasks and operations connected with the installation and switch-over from the ABACUS system to the VIRA system were performed and lasted all through FY 1972--1973. At the end of the period these activities were not fully accomplished. The efficiency of VIRA in terms of computer time will be clearly evident in the report on activities of FY 1973--1974, when all other transfer work has been accomplished and VIRA and EPOS have been implemented in all operational tasks.

A new profile maintenance system linked to VIRA has been designed and implemented. The system is called EPOS and was designed by a separate project group under charge of Mats Lindqvist. The EPOS profile maintenance system comprices on-line

Table 7. Search times in seconds for VIRA.

Data base	No of refs	No of profiles	No of terms	No of hits	Conversion (reformat)	LETA	KNYT	FINN	Sundry	Total time	
					26	56	8	17	9	115	cpu
CAC ODD	4 523	101	3 137	1 901	225	202	25	9	47	510	io
					30	65	9	19	9	133	cpu
CAC ODD	5 183	101	3 150	2 265	258	230	27	10	50	575	io
					31	69	9	20	10	139	cpu
CAC ODD	5 221	97	3 060	2 337	260	231	27	10	50	578	io
					40	117	37	116	15	326	cpu
CAC EVEN	6 827	303	8 471	5 076	341	336	89	40	96	901	io
					42	126	40	126	17	351	cpu
CAC EVEN	7 334	316	8 832	5 655	367	361	96	44	99	967	io
					43	127	41	127	18	357	cpu
CAC EVEN	7 319	311	8 711	5 841	366	360	97	44	98	967	io
						37	9	25	11	82	cpu
INSPEC	2 849	431	11 276	4 780		169	26	8	565	758	io
					53	77	59	298	29	517	cpu
INSPEC	4 584	541	14 831	11 014	368	248	113	74	159	963	io
						80	125	399	92	696	cpu
INSPEC	4 899	424	11 238	7 347		188	136	94	143	535	io
					63	88	65	324	30	570	cpu
INSPEC	4 954	541	14 831	12 109	398	267	122	80	163	1 032	io
						79	77	293	21	470	cpu
INSPEC	5 158	431	11 276	7 946		195	104	63	122	484	io
					63	91	73	353	31	610	cpu
INSPEC	5 261	536	14 771	12 846	423	282	130	86	167	1 088	io

capabilities coupled with batch processing for profile entry. During the first 5 months of the period reported the profile input operations were processed in batch processing mode.

Commencing with November 1972 all profile input is conducted by a teletype terminal for remote job entry in on-line mode. Search profiles can be entered from either local or remote terminals. Input, update, and maintenance of profiles have been greatly simplified by this on-line facility. The system makes use of the "call and copy"-functions which means that any profile or part of profile in the system can be copied into another profile. In order to avoid loops all profiles are given a rank which means that by the call function the search results from any profile can be called upon by a profile of higher rank. Thus it is possible to build hierarchies of profiles using sub-profiles, e.g. groups of chemical elements.

For more detailed information on EPOS see Information Center Staff Publications.

The switch-over to VIRA was conducted gradually data base by data base to avoid break in the current awareness services. The installation of the new system was performed according to the time table as follows:

Data base	Date
Compendex	1972-09-01
GRA	1972-10-08
ERIC	1973-01-24
ABIPC	1973-02-12
FSTA	1973-03-02
Metadex	1973-03-27
MechEn	1973-04-24
WOOD	1973-06-11

During the first five years of SDI service from the IDC all operations were conducted on a computer IBM 360-30F located at the Swedish Nuclear Establishment AB Atomenergi, Studsvik. One of the main reasons for using this computer was that the ABACUS software which we have been using during the first five years was designed for this computer configuration by the staff of the computer center at Studsvik under the direction of Björn Tell.

The implementation of the VIRA system involved the transfer of all computer operations to an IBM 360-75 computer, which was almost wholly accomplished by the end of FY 1972--1973.

The process of switch-over to a new software system and a new computer configuration encompassed the construction and maintenance of new profiles, the maintenance of existing profiles in multiple profile alternatives for different data bases according to two parallelly used systems, complicated tape handling and administration procedures connected with searching

and listing operations conducted on two different computers located at different places.

All these tasks and functions were very time consuming and burdensome for the whole staff. Other basic and essential tasks of the center as for instance adequate profile maintenance, user interaction, or user education could not be performed and conducted at the usual level of ambition and attention.

Related projects. Supplementary activities.

In November 1972 a terminal equipment with an on-line connection to ESRO:s (European Space Research Organisation) Space Documentation Service was installed for retrospective searches in interactive mode at the IDC.

As the on-line retrospective searches are conducted within the frame of a separate project a full report of those activities will be submitted to SINFDOK separately.

The on-line searches are partially included in this report because the grant for the project covered only the equipment, line and access costs. All actual work within that project had thus to be performed by the regular staff presenting an additional burden for the personnel as well professional as clerical.

Demonstrations of on-line retrospective searches were included in all educational activities conducted in Stockholm. See: Marketing. User education.

All the tasks and functions involved in that project occupied one and a half equivalent in manpower.

Installation of a project investigating the information need in social sciences.

In spring 1972 the Institute of Scientific Information in Philadelphia submitted a proposal to the IDC at RIT to supply 13 weeks free trial of their new service SSCI (Social Sciences Citation Index). The IDC accepted this offer as an opportunity to investigate the information need in social sciences and to conduct a user study.

Our intention was to give the scientific community in the field of social sciences the opportunity to get acquainted with this new information system by giving, free of charge, SDI service from the SSCI tapes during 13 weeks.

We distributed a letter inviting teachers, scientists, researchers, and other professionals on academic level as well as the subscribers to our ordinary SDI service to participate in the project. The participants would have to deliver relevance assessments during the trial period. Before and after the period the participants had to answer a special question-

naire to study the users' behaviour, attitudes, and reactions with respect to this new information service. We distributed about 1 000 letters and about 600 people expressed their willingness to participate in the project and they submitted descriptions of their interest fields to be subject to SDI search on the SSCI tapes.

This great interest in our project came quite unexpected and found us unprepared, the staff of the IDC was overloaded with regular work and we found it very hard to construct 600 new profiles parallel with our regular work. We had to employ professional people for profile construction and for conducting the investigation. An application for a grant for the project was submitted to the Swedish Council for Social Sciences Research which assigned 50 000 SwCr for this project. A sociologist on a scolarship from SINFDOK working with us made a draft for the investigation.

We arranged information days at six different Swedish universities where our documentalists met the participants and informed them of the principles of a computer operated information system and instructed them in the techniques of profile construction and presented the SSCI tapes. See: Seminars, workshops...

We generated a term frequency list from two of the tapes and used this as a help tool in profile construction. The trial turned into quite a big project that involved a big effort of marketing. If the result of this project will prove satisfactory we expect to receive an additional grant to enable us to subscribe to the SSCI tapes. Our intention is to make a report of this project and make it available to all parts involved.

The preparation work was conducted during the last three months of FY 1972--1973 by the ordinary staff who put in great efforts into this project.

Marketing. User education.

The effectiveness of the search profile is to a high degree dependent on the active interest of the subscriber. The user is more able to influence the effectivness of his search profile if he knows the basic principles of the computer-based information retrieval system and profile construction technique. Therefore we have organized one, two, and five days educational seminars with lectures and training in profile construction.

Research engineers, production engineers and scientists as well as students on different levels, have participated in these seminars. All of them had encountered the increasing need for up-to-date information in their daily work. The participants were not only informed about the principles of the SDI system, but were also given an introduction to manual information retrieval methods. This was done because the initial intellectual effort placed on the user when he has to define his problem is the same for both methods of information retrieval.

Seminars, workshops, lectures, organized by the staff of the RIT Information and Documentation Center.

RIT Department of Mineral Processing, Stockholm
T.Hedman
1972-09-12
About 12 attendees

National Labour Board, Extension Course in Documentation Techniques, Stockholm
Z.Gluchowicz, R.Hjerppe
1972-09-22
About 15 attendees

Royal Caroline Medico-Chirurgical Institute, Stockholm
Z.Gluchowicz
1972-10-02
About 20 attendees

National Library, Stockholm
Z.Gluchowicz, M.Edström, L.Kaiserfeld
1972-10-30--11-05
About 20 attendees

RIT Department of Mineral Processing, Stockholm
T.Hedman
1972-11-06
About 15 attendees

The Swedish Association of Pulp and Paper Engineers
T.Hedman
1972-11-09
About 57 attendees

National Labour Board, Extension Course in Documentation Techniques, Stockholm
M.Edström
1972-11-10
About 20 attendees

Swedish Association of Engineers, Stockholm
B.Tell, Z.Gluchowicz, R.Hjerppe, M.Edström, K.Wessgren
1972-11-16--17
About 220 attendees

University of Stockholm, Department of Informatics
Z.Gluchowicz
1972-11-29
About 15 attendees

RIT, Department of Electrical Measurements
R.Hjerppe, A.Nord
1972-12-06
About 15 attendees

Royal College of Forestry, Stockholm
T.Hedman
1972-12-06
About 20 attendees

National Labour Board, Extension Course in Documentation Techniques, Lund
R.Hjerppe
1972-12-06--08
About 20 attendees

University of Stockholm, Department of Geology
M.Edström
1972-12-14
About 15 attendees

National Labour Market, Extension Course in Documentation Techniques, Stockholm
Z.Gluchowicz, M.Edström, L.Cwirkowska, A.Nord
1972-12-18--19, about 20 attendees

University of Stockholm
Z.Gluchowicz
1973-01-18
About 15 attendees

RIT, Department of Electrical Measurements
M.Edström, A.Nord
1973-02-05
About 10 attendees

The Swedish Institute of Production Engineers, Stockholm
T.Hedman
1973-02-07
About 9 attendees

Swedish Forest Products Laboratory, Department of Paper Technology, Stockholm
K.Wessgren, T.Hedman
1973-03-01
About 20 attendees

Royal Caroline Medico-Chirurgical Institute, Stockholm
Z.Gluchowicz
1973-03-08
About 20 attendees

The LKAB Mining Company Ltd, Kiruna
T.Hedman
1973-03-14
About 10 attendees

North-Bothnian Steelworks Ltd, Luleå
R.Hjerppe, T.Hedman, K.Wessgren
1973-03-15
About 10 attendees

Institute of Technology, Luleå
R.Hjerppe, T.Hedman, K.Wessgren
1973-03-16
About 20 attendees

RIT, Department of Electric Power System Engineering, Stockholm
Z.Gluchowicz, Å.Nord, K.Wessgren
1973-04-10
About 20 attendees

University of Umeå
L.Höglund, K.Wessgren
1973-05-03
About 25 attendees

University of Linköping
L.Kaiserfeld
1973-05-07
About 15 attendees

University of Uppsala
T.Hedman, K.Wessgren
1973-05-08
About 20 attendees

RIT, Stockholm
M.Edström, L.Kaiserfeld, K.Wessgren
1973-05-09
About 50 attendees

University of Lund
R.Hjerppe, Å.Nord
1973-05-11
About 15 attendees

Gothenburg School of Economics
M.Edström, T.Hedman
1973-05-11
About 40 attendees

Association of Librarians for Public Libraries
B.Tell, Z.Gluchowicz
1973-05-17
About 15 attendees

Those educational activities which were conducted at the RIT included 14 demonstrations of on-line retrospective searches on the ESRO-RECON Terminal for about 400 people. This does not account for all demonstrations of the terminal during the FY 1972--1973. A separate report on the on-line retrospective searches on the ESRO-RECON Terminal will be submitted.

Status on 30 June 1973.

The figures presented in this chapter can not be considered as a survey over the activities of the FY 1972--1973, they give an account of the situation just on this special day.

Keeping in mind the dynamics of an SDI system, a status on a special day does not give a true representation of the activities during FY 1972--1973 as it does not show the amount of activities conducted during the period.

Number of queries including standard queries	1 220
Total number of profiles including standard profiles	5 743

Table 8.

Profile distribution

Data base	SDI profiles	Standard profiles	Total
ISI	870	21	891
MechEn	296	18	314
CAC	411	3	414
INSPEC	514	3	517
Metadex	332	8	340
NSA	64		64
Compendex	763	20	783
ABIPC	64		64
WOOD	47		47
ERIC	113	1	114
FSTA	43	1	44
STU	1 170	22	1 192
GRA	874	21	895
TR	64		64
TOTAL	5 625	118	5 743

Tabular summary.

Number of new queries	462
Number of new profiles	2 018
Number of running queries including standard queries	1 220
Number of reconstructed profiles	2 564
Total number of profiles over data bases	5 743
Number of standard queries	22
Number of subscriptions to standard queries	89
Number of disseminated references for SDI	1 224 700
Number of processed references	1 292 300
Number of retrospective searches	145
Number of orders for copies of documents	17 059

The amount of new queries submitted to the system was 462, as shown above, but the net increase of queries was 270 as some queries have been terminated during the year. This is only natural as an SDI subscription usually is made for a specific purpose that will have an end. The implementation of new software on another computer configuration put a heavy workload on the staff. The installation and use of the on-line equipment for retrospective searches on the ESRO-RECON network has also occupied the equivalent of one and a half in manpower. The effect was that profile maintenance and interaction with the user community suffered.

The great efforts made in performing all these additional tasks in parallel with the current awareness service were possible only because all staff members are cross-trained so that every functional task can be handled by at least three people and each person can contribute to all kinds of functions in the center. The team work approach to management results in a solidarity and total staff capability exceeding that which can be expected from a relatively small staff. The interest and the hard work of dedicated and conscientious staff members are the main elements which have enabled us to perform the tasks described in this report.

Presentations and demonstrations.

The transdisciplinary information retrieval system of the IDC at RIT created great interest in Sweden and abroad. The list of visitors contains only guests from outside Sweden, as the receiving of Swedish visitors is part of the daily work of the center.

N. Spicer
Council for Scientific and Industrial Research
Pretoria, South Africa
1972-08-14--17

A. Fleming
National Librarian
National Library of Australia
Canberra, Australia
1972-09-04

Lewis E. Weeks
The Cooperative Information Center for Hospital Management Studies
Ann Arbor, Michigan, USA
1972-09-29

Mr. Robertson and Mr. Graene
New Zealand
1972-10-16

Hubert Weulersse
Pechiney Ugine Kuhlmann
Paris, France
1972-11-27--28

Henri Vigne
Centre National de la Recherche Scientifique
Lyon, France
1972-11-27--12-03

Dipl ing Jan Nesicky
Central Office of Scientific, Technical and Economic Information
Prague, Czecho-Slovakia
1972-12-04--08

M. Heroin
Contact secretary of the University of Orsay, France
and
M. Rivière
Secretary of Association Franco-Suédoise pour la Recherche
Stockholm
1972-12-12

Chris Leamey
Office of Scientific and Technical Information
London, England
1973-03-20

Carl Keren
National Center of Scientific and Technological Information
Tel-Aviv, Israel
1973-03-27

Thomas C. McDonald
Chemical Abstracts Service
Columbus, Ohio, USA
1973-04-09

Michael Lynch
University of Sheffield, England
1973-04-17

Siegfried Langhans
Zentralinstitut für Information und Dokumentation, Berlin, DDR
and
Klaus R. Engelmann
Botschaft der DDR
Stockholm
1973-04-25

Harvey Marron
Department of Health, Education and Welfare
Washington, D.C., USA
1973-05-24

A.G.A. Pickford
British Council
London, England
1973-05-30

Yael Arad
National Center of Scientific and Technological Information
Tel-Aviv, Israel
1973-06-14--15

Dr. U. Schützsack
International Food Information Service
Frankfurt/Main, Germany
1973-06-20--21

Students undergoing practical training at the IDC.

Rolf Carlsson
1972-07-26--08-31

Mats Löfström
1972-08-21--09-15

Håkan Stefansson
1973-01-02--03-02

Giorgios Halbidis
1973-03-05--09

Ann-Sophie Hedin

1973-03-12--16

Eva Abrahamsson
1973-03-19--23

Catharina Åkerhielm
1973-03-26--30

Kurt Sörhult
1973-04-02--06-30

Visiting scientist for research work

Yvette Henry
Centre National de la Recherche Scientifique
Paris, France
1973-04-10--07-10

Meetings, Courses, Seminars attended by the staff.

1972-09-07--08	Meeting of the Utilization of Tapes for IFIS. Malin Edström.
1972-10-16--19	EUSIDIC Full Member Meeting and Conference. Roland Hjerppe.
1972-11-07	The Swedish Society for Technical Documentation. Meeting. Tore Hedman, Liliana Cwircowska, Åke Nord, Malin Edström, Luise Kaiserfeld.
1972-11-09	The Swedish Association of Pulp and Paper Engineers. Seminar. Tore Hedman.
1972-11-13--17	ISIS II. Course for users. Malin Edström.
1973-02-06--07	INSPEC Tape Workshop. Roland Hjerppe.
1973-02-22	University of Stockholm, "Basic". Åke Nord, Luise Kaiserfeld, Liliana Cwirkowska.
1973-02-23	University of Stockholm, "Basic". Zofia Gluchowicz, Malin Edström, Tore Hedman, Roland Hjerppe.
1973-03-05	The Swedish Council for Scientific Information and Documentation. Meeting. Tore Hedman.
1973-06-05	The Swedish Society for Technical Documentation. Meeting. Tore Hedman.
1973-06-12--14	2nd Nordic I&D Conference, Helsinki. Zofia Gluchowicz, Roland Hjerppe.

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Gluchowicz, Z., Beskrivning av sökproceduren vid ESRO terminalen. Rapport TRITA-LIB-4013. Sept 1972. 14p.

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